

FIG. 1

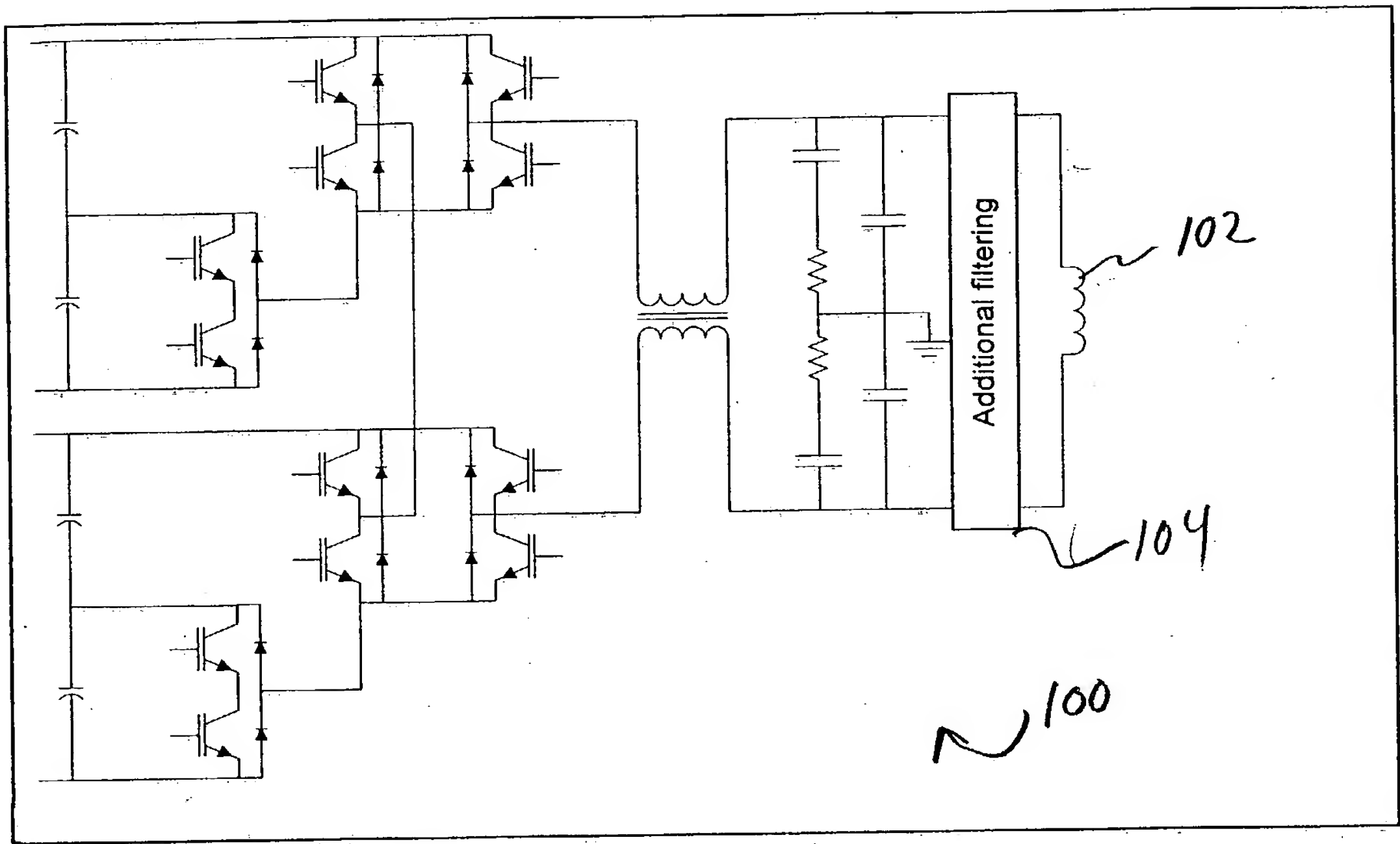


Fig. 2

PRIOR ART

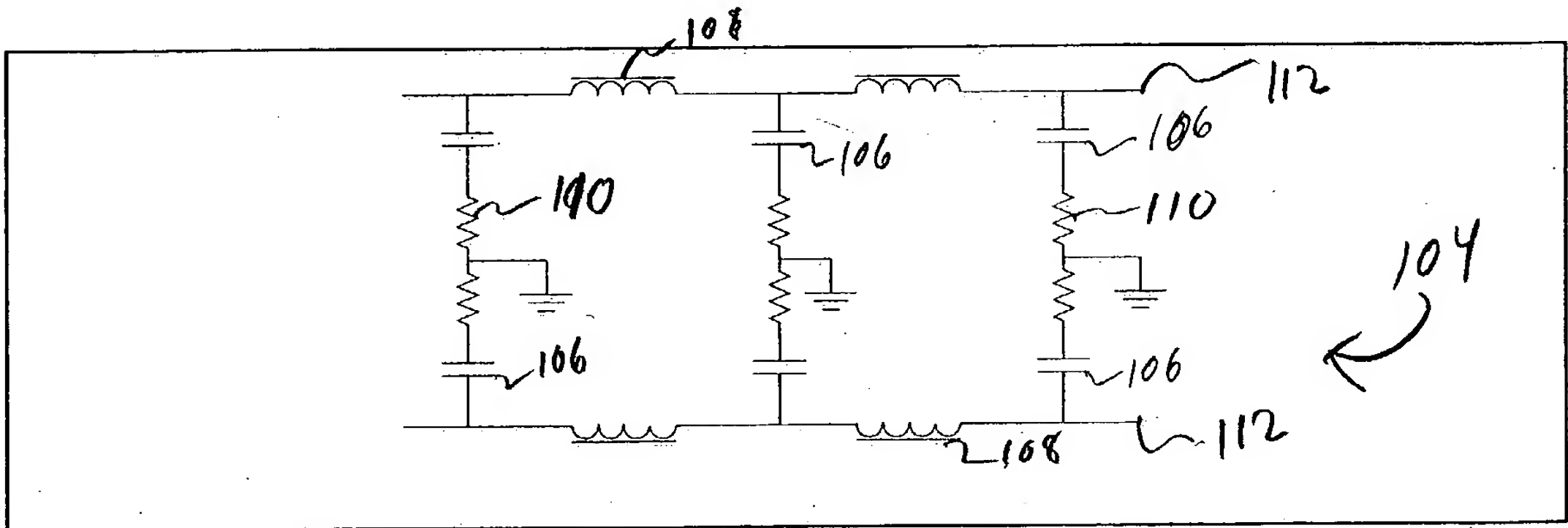


Fig. 3

PRIOR ART

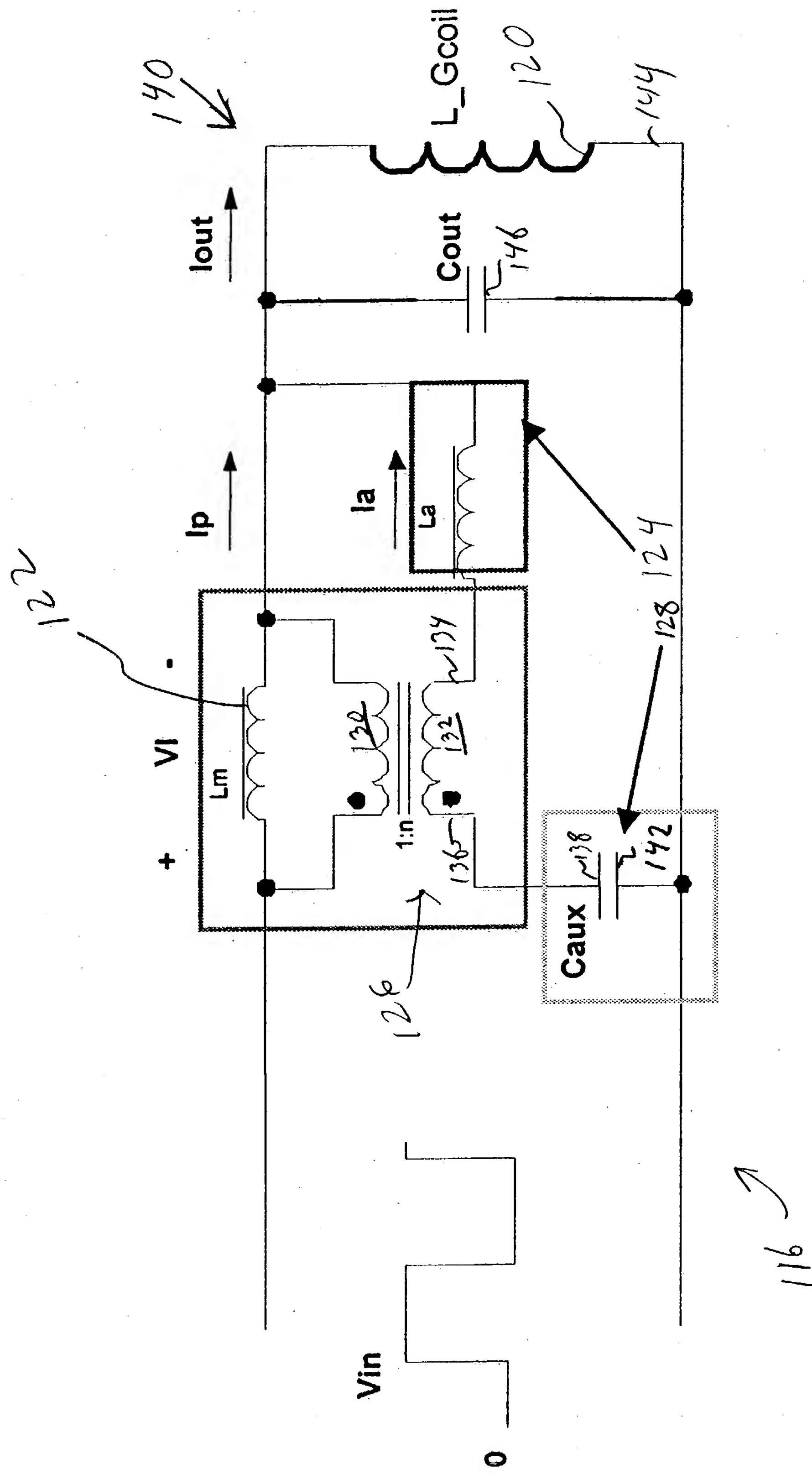


Fig. 4

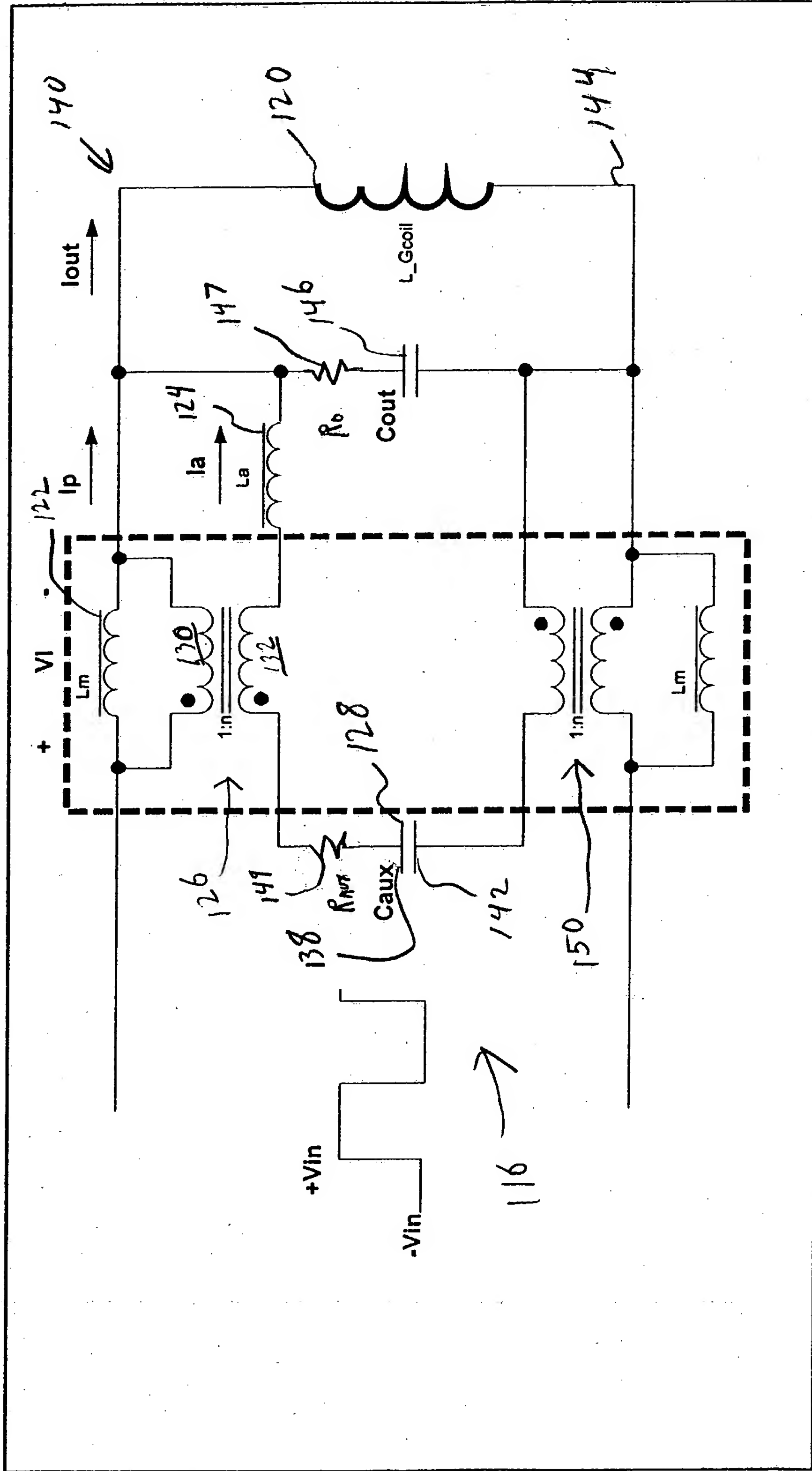


Fig. 5

With ripple cancellation circuit

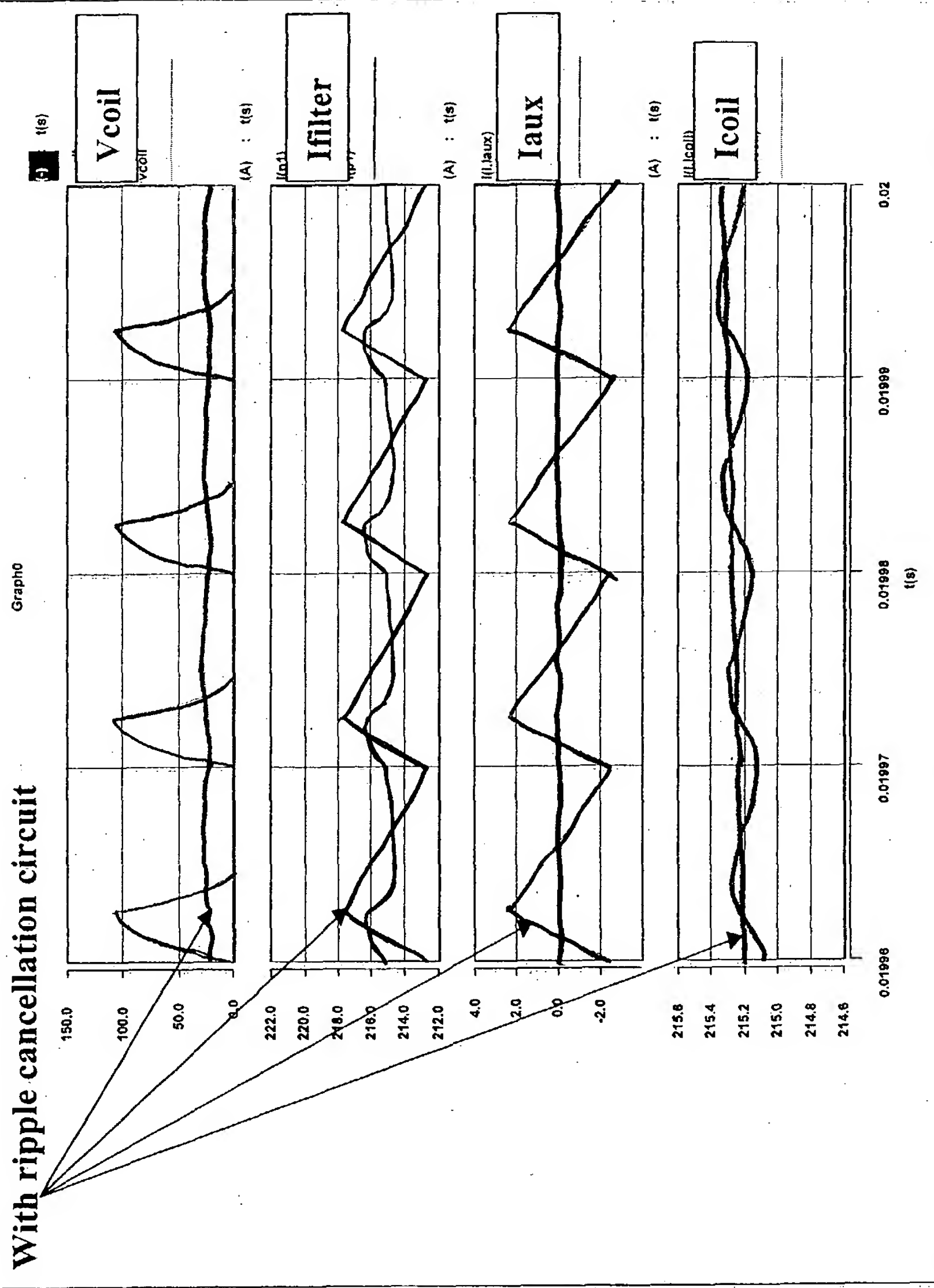
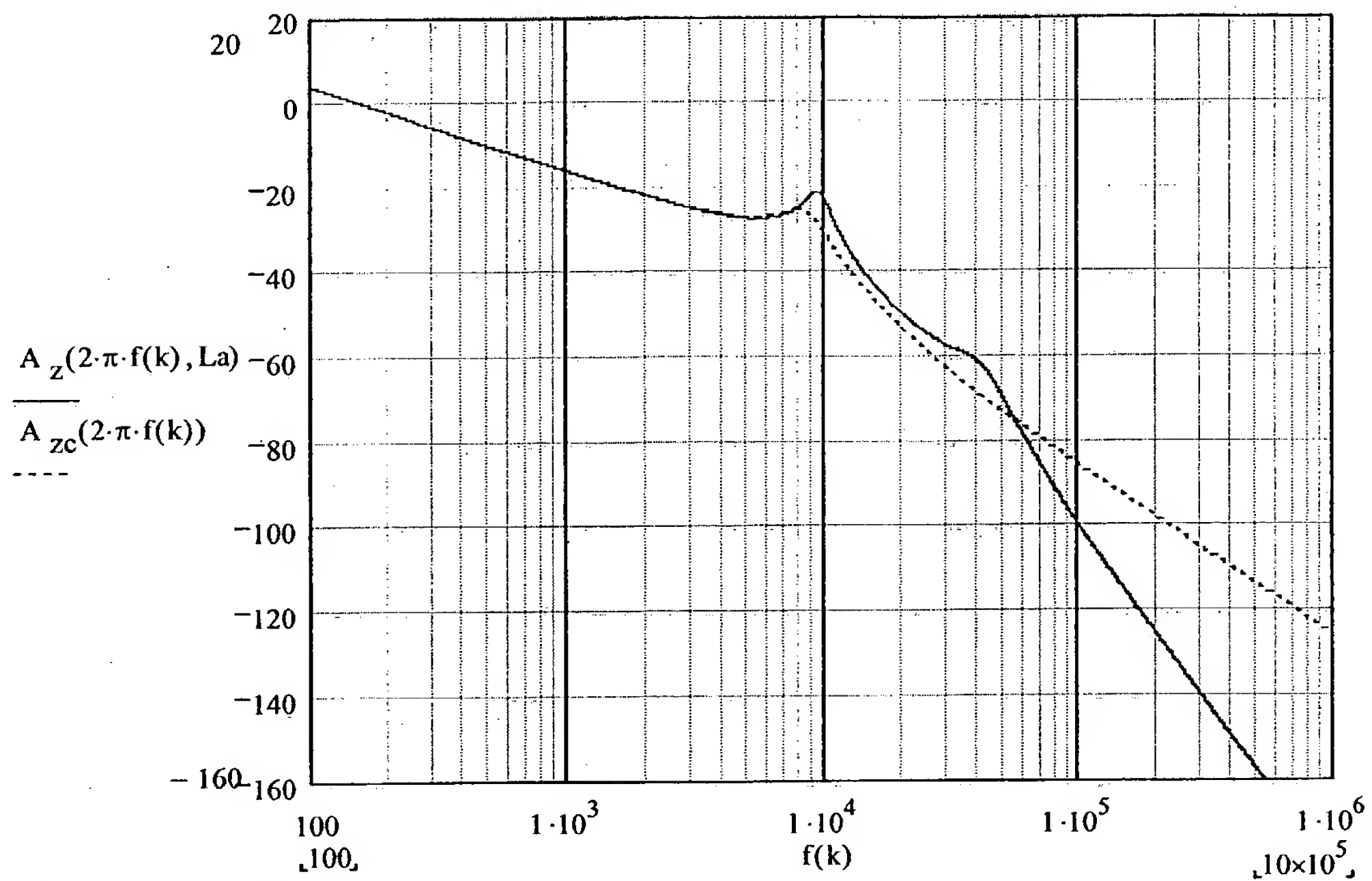


Fig 6

a) I_{out}/V_{in}



b) Phase of I_{out}/V_{in}

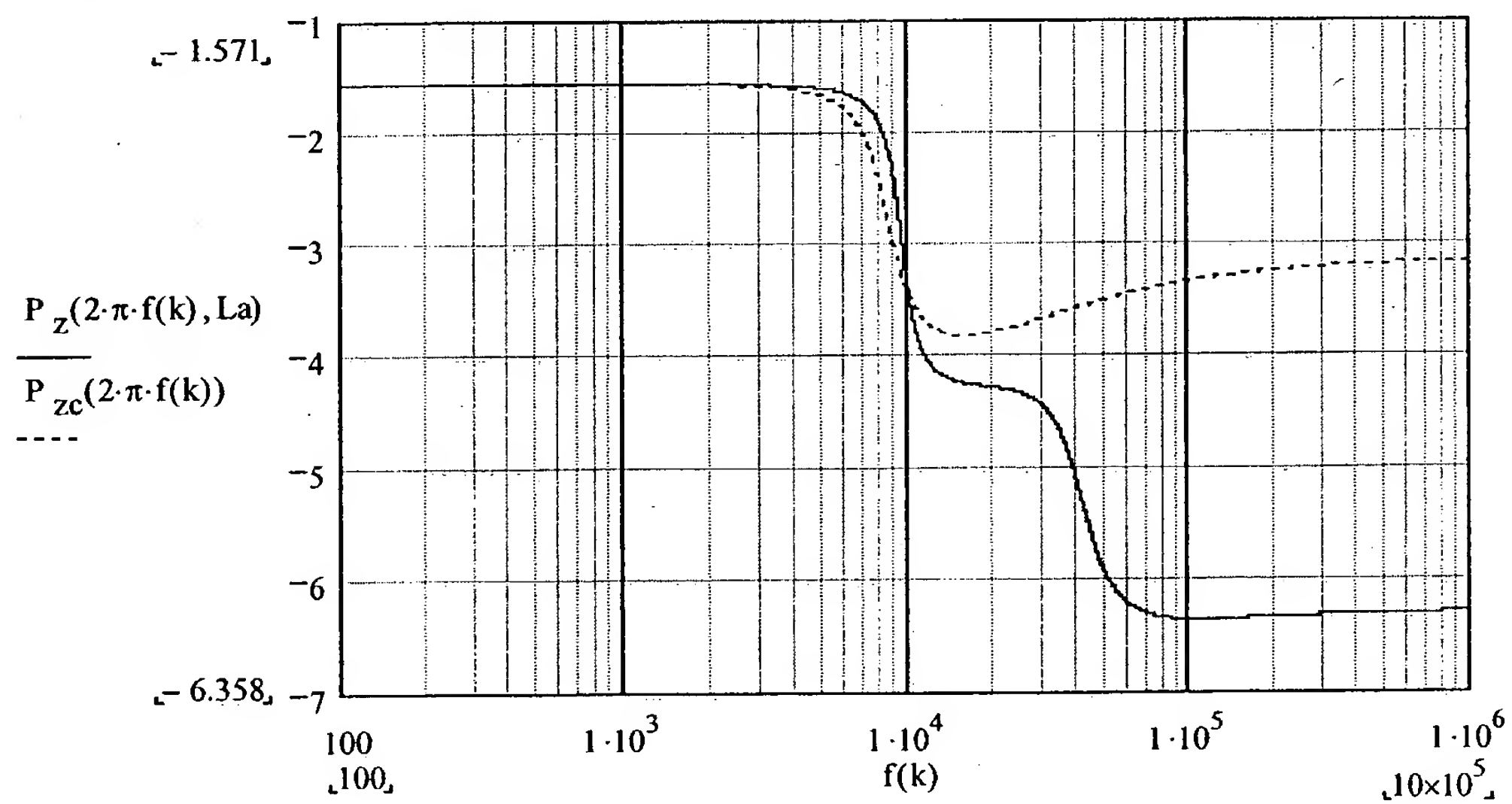
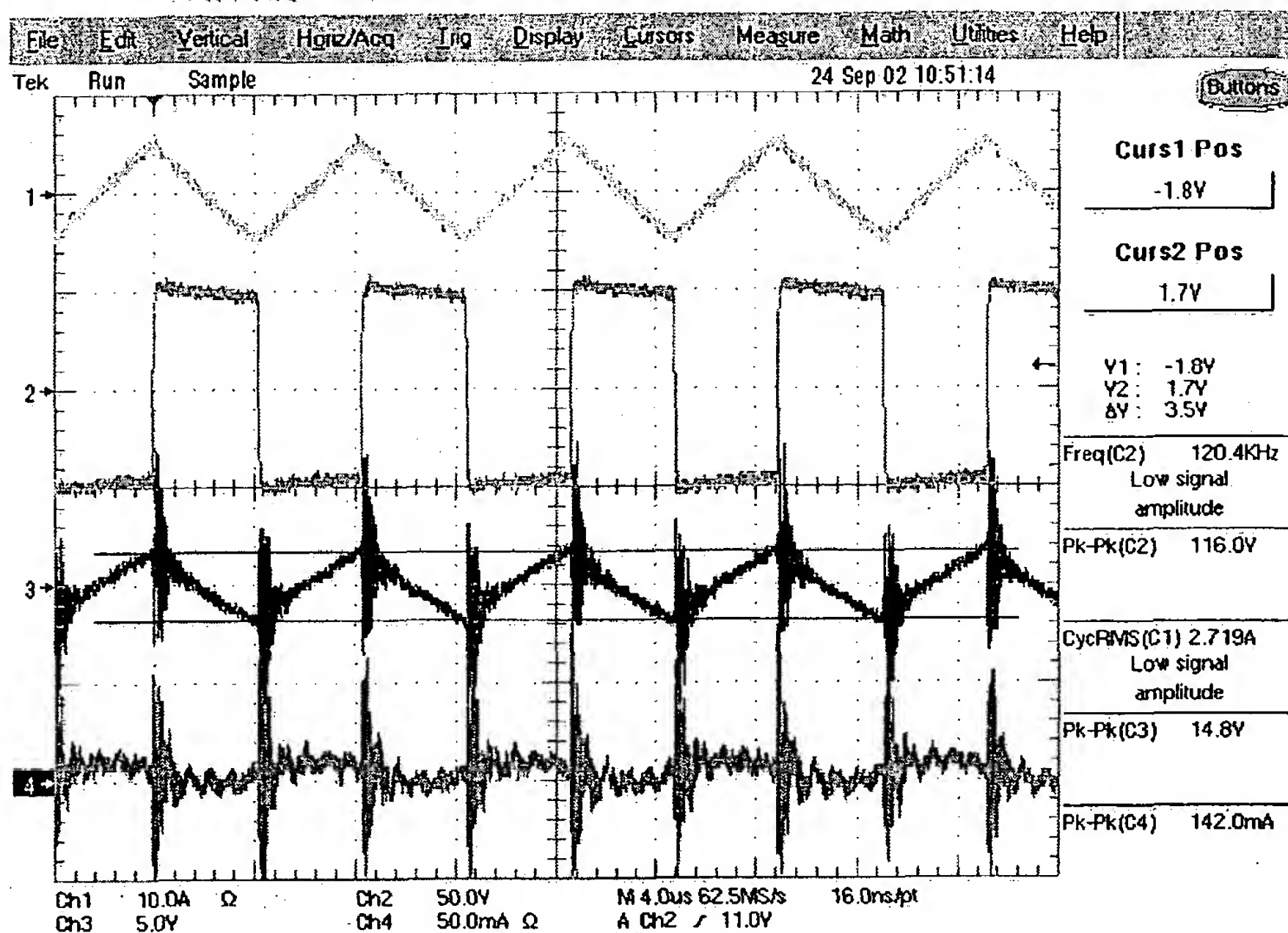


Figure 7

Waveforms with $C_{aux} = 10\mu F$



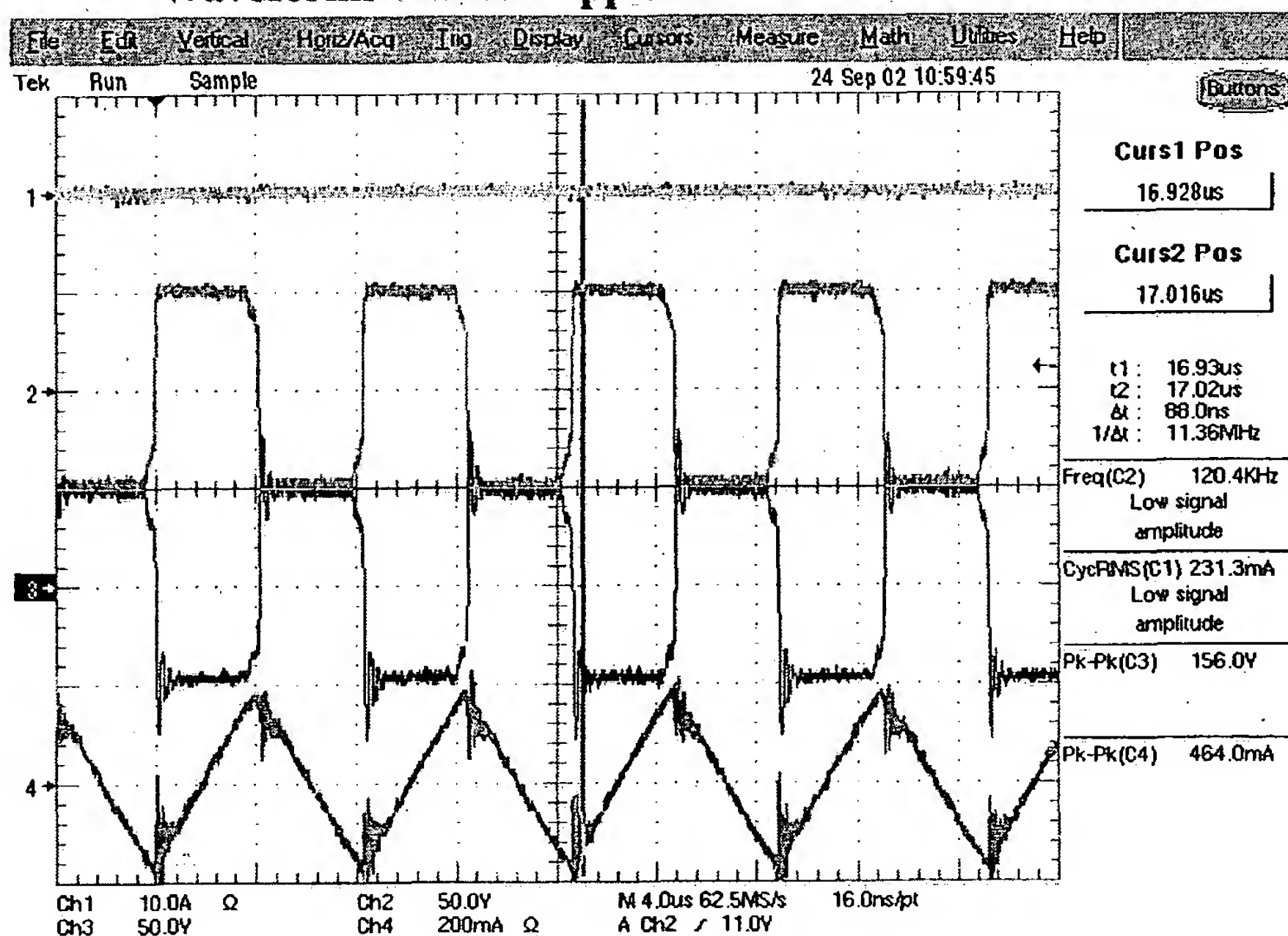
I_{aux}

V_{in}

V_{coil}

I_{coil}

Waveforms without ripple cancellation circuit



I_{aux}

V_{in}

V_{coil}

I_{coil}

Figure 8: Measurements for square-wave input voltage. CH1

Coil voltage, CH2

V input

(after dc blocking cap),

CH3 Auxiliary current,

CH4 "Gradient coil" current